

TITLE

Fastener with Ergonomic Removal to Insertion Force Ratio

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ABSTRACT OF DISCLOSURE

10 This invention relates to a spring fastener, which comprises engagement
springs in opposite sides of the fastener. Each engagement spring has an engagement
region comprising a hindrance portion, which increases considerably the removal to
insertion force ratio as compared to such ratio in the absence of the hindrance portion,
thus permitting very easy insertion with considerably more difficult removal of the
fastener from the slot of a panel, which provides an efficient ergonomically balanced
15 removal to insertion force ratio. The hindrance portion comprises ripples or other
hindrance elements of unexpectedly minute dimensions for providing this efficient
ergonomic force balance. The combination of the above structures with the presence of
barbs being bent at their front portion improves immensely the ergonomic character of the
devices.

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